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The following table shows the results of the analysis of variance for the effect of the concentration of the solution on the rate of polymerization. The data are given in the form of the mean values of the rate of polymerization, \bar{R}_p , and the standard deviation, σ , for each concentration of the solution. The results are given in the form of the mean values of the rate of polymerization, \bar{R}_p , and the standard deviation, σ , for each concentration of the solution.

Concentration of the solution, mol/l	Mean value of the rate of polymerization, \bar{R}_p , mol/l-hr	Standard deviation, σ , mol/l-hr
0.01	0.0012	0.0002
0.02	0.0024	0.0004
0.04	0.0048	0.0008
0.06	0.0072	0.0012
0.08	0.0096	0.0016
0.10	0.0120	0.0020
0.12	0.0144	0.0024
0.14	0.0168	0.0028
0.16	0.0192	0.0032
0.18	0.0216	0.0036
0.20	0.0240	0.0040
0.22	0.0264	0.0044
0.24	0.0288	0.0048
0.26	0.0312	0.0052
0.28	0.0336	0.0056
0.30	0.0360	0.0060
0.32	0.0384	0.0064
0.34	0.0408	0.0068
0.36	0.0432	0.0072
0.38	0.0456	0.0076
0.40	0.0480	0.0080
0.42	0.0504	0.0084
0.44	0.0528	0.0088
0.46	0.0552	0.0092
0.48	0.0576	0.0096
0.50	0.0600	0.0100

The results show that the rate of polymerization increases with increasing concentration of the solution. The standard deviation also increases with increasing concentration of the solution.

